

Where does all the water go?

To help water systems get a handle on leakage, *Water Tap* consulted with expert Joe Godwin of American Leak Detection. Godwin worked for 17 years as an electrical/mechanical engineer before becoming a leak detection specialist. He has been with American Leak Detection for 13 years.

Godwin graciously agreed to help us develop a three-part series. Part one, on leak detection, appears below. Part two, on conducting a water audit, will appear in December, and part three on developing a leak detection plan will appear next March.



Joe Godwin, American Leak Detection

Water Tap (WT): How do you become a leak detection specialist?

Godwin: Experience is the ultimate instructor – both positive and negative. There is no real training other than learning how to be a good problem solver, learning not to narrow the field of search too soon, and not to assume anything.

Searching for the elusive leak can be a humbling and rewarding experience. Sometimes you look for days and never find the leak. Other times you just stumble upon it. You need to stay the course and not be diverted away from the hunt. In the end, you have to be persistent and systematic in your approach to be successful.

WT: How can a system find leaks?

Godwin: Actually, there are two types of leaks: physical leaks and non-revenue water loss. Physical leaks are the last thing you look for.

First, you have to get a handle on your total non-revenue water loss, or unaccounted-for water.

Non-revenue water loss occurs when water the system pays to obtain, treat and pressurize leaves the system before it reaches the customer. Examples include leaks, loss due to theft, accounting errors, inaccurate meters, water to flush mains, water for street cleaning and fire fighting, and water for irrigating parks.

WT: Why is it important to find leaks?

Godwin: Leak detection improves your ability to manage what you have. It's a tool to show your customers what you are doing to reduce water loss, regain control, and help you understand your system.

Reducing leaks means more water. And more water means more capacity. In other words, you can

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THE DIRECTOR'S COLUMN

BY DENISE ADDOTTA CLIFFORD



Achieving a balance with Group B water systems

There are more than 13,000 water systems in Washington that have fewer than 15 connections. These "Group B" water systems provide drinking water to only about two percent of the state's population.

The sheer number of these systems makes regulation and oversight difficult. Dwindling state resources add to the problem. The time has come to consider changes that will help us balance the health needs of people served by this program with the resources dedicated to it.

Group B systems are not regulated by the federal Safe Drinking Water Act. Rather, the State Board of Health is responsible for developing regulations for these systems. We have worked with, and provided state general fund dollars to, our partners in local health jurisdictions to provide oversight of these systems.

With continued reductions in government funding for state programs, we must find ways to become more efficient, while maintaining an acceptable level of public health protection. With very little funding to implement the program, the current Group B regulations obligate government to do more than it can possibly do. We will be working closely with the State Board of Health in the near future to establish a new vision of regulatory requirements for Group B water systems.

As we look to improve public health protection for people in Washington, we are also taking into consideration private wells that have very little regulatory oversight. A substantial portion of the state's population, about eight times as many as those being served by Group B water systems, use individual wells as their drinking water source.

No matter what regulatory structure is in place, we believe better public education is needed for all Group B water systems and individual well owners to help them make sure their water is safe and reliable.

Moved recently? Changed employers?

Drinking water rules require operators to report changes in writing to the Water Works Operator Certification Program. Operators must submit changes of home address, home phone number and employer information.

Every year operators lose their certification because they fail to report address changes.

There are several ways to update your information. Be sure to include your operator certification number on all correspondence.

Write us:

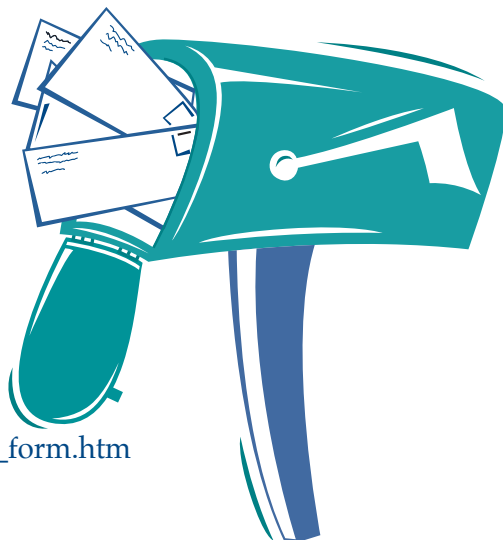
Water Works Operator Certification Program
PO Box 47822
Olympia WA 98504-47822

Use the online form:

http://static.doh.wa.gov/ehp/dw/operatorcertification/op_form.htm

E-mail: larry.granish@doh.wa.gov

Fax: Larry Granish at (360) 236-2252



If you have questions, call Larry Granish at (360) 236-3141 or (800) 525-2536, extension 1.



Once in a while we find tools or resources that could really benefit our readers. From now on, we'll be featuring them in the Toolbox. If you have a resource you'd like to share with other readers, please send it to linda.waring@doh.wa.gov

Interactive Sampling Guide for Drinking Water System Operators

The U.S. Environmental Protection Agency (EPA) has an interactive CD-Rom and Web site to help drinking water system owners and operators better understand the general procedures involved in collecting Safe Drinking Water Act compliance samples. Visit EPA online at <http://www.epa.gov/safewater/smallsys/samplingcd.html> or call (800) 490-9198 and ask for EPA 816-C-06-001.

Water Wiser Drip Calculator

The American Water Works Association has an online calculator you or your customers can use to measure and estimate water wasted due to leaks. Check it out at <http://www.awwa.org/advocacy/learn/conserves/dripcalc.cfm>

Financial Assistance

Learn how to get funding from the Rural Community Assistance Partnership (RCAP) and others. Fill out the form at <http://www.water-trust.org/loan.asp> and a member of RCAP in your region will respond shortly.

Safe Drinking Water Tools for Public Water Systems

EPA's Office of Ground Water and Drinking Water produced a CD and companion Web site that provide one-stop access to many products and tools already in print. To order a copy, call (800) 490-9198 and ask for EPA 816-C-05-003.

Cross-connection control services

You can download a list of cross-connection control specialists from The Group's Web site at <http://www.backflowgroup.org/resources/CC-SListPub2006-07-12.pdf>

Funding for Water Systems

Drinking Water State Revolving Fund Intended Use Plan

The Office of Drinking Water (ODW) will present its plan to distribute State Revolving Fund project loan and set-aside funds at a public hearing from 9 to 9:30 a.m., October 3 at the Department of Health, Town Center 3, 243 Israel Road SE in Tumwater.

Public comments on the draft Intended Use Plan will be collected from September 1 to October 3.

Drinking Water State Revolving Funds are loaned to municipal and private water systems for projects that improve drinking water infrastructure and increase public health protection.

ODW, the Public Works Board and the Department of Community, Trade and Economic Development jointly manage the revolving loan fund. ODW reviews applications and prioritizes those eligible for funding.

The draft Intended Use Plan is on the ODW Web site at http://www.doh.wa.gov/ehp/dw/Our_Main_Pages/dwsrf.htm and available at the State Library in Olympia.

To submit comments or get a copy of the plan, call Rich Sarver (360) 236-3093 or e-mail rich.sarver@doh.wa.gov. Send mail to Rich Sarver at the Department of Health, Office of Drinking Water, PO Box 47822, Olympia WA 98504-7822.

IACC Conference in November Register today!

The Infrastructure Assistance Coordinating Council (IACC) will hold its fall conference October 31 through November 2 at the West Coast Wenatchee Hotel. This popular conference features training and program sessions on infrastructure funding and technical assistance. Jurisdictions that register for help prior to the conference may discuss their specific infrastructure problems with a technical team.

For more information on technical teams or the conference, or to register, call Bill Cole, Public Works Board, at (360) 586-4125.

The IACC database at <http://www.infracfunding.wa.gov> is your resource for locating infrastructure funding or technical assistance in Washington.

Washington's WUE Rule supports EPA's four pillars of sustainable infrastructure

The Office of Drinking Water is finalizing Washington's Water Use Efficiency (WUE) Rule as required by the Municipal Water Law. When the rule goes into effect, all of Washington's municipal water suppliers will be in step with the U.S. Environmental Protection Agency's (EPA) four pillars.

EPA's stewardship initiative, the "Four Pillars of Sustainable Infrastructure," promoted during May 2006 Drinking Water Week, highlights four areas of water delivery:

- 1) Better Management
- 2) Full-Cost Pricing
- 3) Efficient Water Use
- 4) Watershed Approaches to Protection

The goal of EPA's four pillar campaign is to "change how the nation views, values, manages, and invests in its water infrastructure," according to Ben Grumbles, assistant administrator of EPA.

Pillar #1 – Better Management

Improving utility performance and implementing practices such as asset management can help utilities focus on their highest priority of aging infrastructure. Distribution mains in many water systems have served beyond their useful life. Old mains can cause major leakage, property damage, and public health and safety concerns.

The second element of the WUE Rule, the distribution leakage standard, will move municipal water suppliers towards replacement and repair of infrastructure.

Pillar #2 – Full-Cost Pricing

EPA wants to shift public perception about the value of water. Past water pricing practices have led the public to believe that water is available and cheap. EPA realizes government programs cannot fully fund all the needed infrastructure replacement. So, citizens may face increasing rates as utilities invest in safe, high quality water for

the future. Educated citizens that understand the immense value of clean and reliable drinking water will be more willing to pay.

The Water Use Efficiency Rule requires systems to evaluate water pricing to encourage the efficient use of water. This new evaluation will be required within planning documents.

Pillar #3 – Water Efficiency

EPA just released WaterSense, an innovative market enhancement program to promote the use of water efficient products and services. The WaterSense label will appear on products and services that perform at least 20 percent more efficiently than their less-efficient counterparts. Products will be independently tested to ensure they really deliver the advertised water savings. Utilities can use this resource to educate customers on products proven to save water.

Visit <http://www.epa.gov/watersense/> for more information.

The WUE Rule is about creating quantifiable water saving goals and programs to achieve efficient use of water. An annual performance reporting requirement brings water accountability to the forefront of utility operations and public awareness.

Pillar #4 – Watershed Approach

A watershed approach to protection is about taking a broader look at water resources. It attempts a more coordinated use of water within a single watershed for the greatest benefit.

The WUE Rule will require municipal water suppliers to define their water supply characteristics and bring this critical information to the public goal-setting meeting. In addition, it requires suppliers to look at efficiencies as a way of stretching current water sources because doing so is less expensive than trying to develop new water supplies. In Washington, high quality water is in limited supply. The state has many closed basins, which means no new water supplies will be granted in those areas. In areas where watershed plans are being developed, municipal water suppliers should actively work with the planning unit to ensure their future water needs are incorporated into the watershed plan.

For more information, visit EPA's Website at: <http://www.epa.gov/water/infrastructure/>

Rule Making

Group A public water supplies

As described in the March 2006 issue of Water Tap, the U.S. Environmental Protection Agency has finalized the Long Term 2 Enhanced Surface Water Treatment Rule and the Stage 2 Disinfectants and Disinfection Byproducts Rule. The Office of Drinking Water (ODW) is analyzing these rules to determine how they will affect public health and resources supporting its enforcement responsibility for the drinking water program.



Drinking water certification

The State Board of Health authorized a revision to Drinking Water Certification Rules related to laboratories that analyze drinking water samples. The revision will clarify the distinct roles of the state Department of Ecology and ODW in certifying laboratories, and specify data reporting requirements for certified laboratories. We will focus rule changes on elements intended to ensure laboratory data is understandable and timely for use by drinking water systems and ODW.

For information

We will post our rule-making schedule and draft changes to both rules online at http://www.doh.wa.gov/ehp/dw/our_main_pages/regula.htm

Final Reminder!

Professional Growth Deadline is 12/31/06

In June, a reminder letter was mailed to all certified water works operators and backflow assembly testers (BAT) that must meet the Department of Health's (DOH) professional growth requirement by December 31, 2006. This is the last notification you will receive before the deadline.

If you were certified before January 1, 2004

You must meet the professional growth requirement by December 31, 2006. If you DO NOT satisfy the professional growth requirement by the December 31, 2006 deadline, you will not be eligible to renew your certification for 2007.

Most water works operators meet the requirement by completing relevant training and earning at least 3.0 continuing education units (CEU) or college credits. Training is not required for BATs. If you are a certified BAT, you must pass DOH's professional growth exam to meet your professional growth requirement.

If you were certified after January 1, 2004

Water works operators and BATs certified between January 1, 2004, and December 31, 2006, have until December 31, 2009, to meet their professional growth requirement for the first time.

Questions?

If you are a certified water works operator, you may now view your professional growth transcript and status online at <http://www.wetrc.org/>

Click on Water Works Operators and View Professional Growth Report, and follow the simple instructions to create your own personal username and password. Remember – do not add any zeros to the front of your certification number when creating your password or the system will be unable to identify you.

If you have other questions about your professional growth requirement, call Certification Services staff at Green River Community College at (253) 288-3369 or toll-free in Washington at (800) 562-0858.

If you are a certified water works operator, contact:

Peggy Barton, Associate Director, Certification Services

If you are a certified backflow assembly tester, contact:

David Kingsley, Backflow Assembly Tester Certification Program Manager



New! Online drinking water resources

The Office of Drinking Water (ODW) has two new Web applications ready for water systems and the general public.

SENTRY Internet can provide a host of great information on a water system or set of water systems. Users can get details on ownership, source water supplies, past water quality monitoring results and so on. Visit SENTRY Internet at <http://www4.doh.wa.gov/sentryinternet/>



Source Water Protection (SWAP) Web site shows wellhead protection areas, surface water watersheds used for drinking water supplies, potential sources of contamination and the susceptibility rating for each source. Office of Drinking Water staff has worked on this Web site since the late '90s to help water systems meet source water assessment requirements. To use the site you must register with a valid e-mail address, and use a password. Visit SWAP at <http://www4.doh.wa.gov/swap/>

Check it out!



We would appreciate it if you would use the applications to check out the information ODW has listed for your water system. Please use the "give us feedback" tools to report any issues you identify.

You can also access both Web sites by clicking on "Water System Data" in the left column of ODW's home page at <http://www.doh.wa.gov/ehp/dw/default.htm>

If you have questions, please call our customer service team at (360) 236-3113.

Good job, Washington!

Source Water Assessment Program

This summer the U.S. Environmental Protection Agency (EPA) congratulated the Office of Drinking Water for completing 6,896 source water assessments on 4,130 public water systems.

"We recognize that years of effort and commitment led to these achievements," said EPA Regional Administrator L. Michael Bogert. "We are impressed by the technical abilities of your staff and the quality of the interactive GIS application and Web site they produced."

There are four major components to the federally mandated Source Water Assessment Program. The state is to ensure the following requirements have been met for each federally regulated Group A public drinking water system:

1. Delineate source water protection areas (SWPA) for each source (well, spring, surface water intake).
2. Inventory each SWPA for potential contaminant sources.
3. Conduct a susceptibility assessment for each drinking water source.
4. Make the findings of 1-3 readily available to interested parties.

Washington is well situated to continue the Wellhead Protection and Source Water Protection programs, Bogert continued. "The source water assessment GIS datasets will



EPA recognized David Jennings as one of the national leaders in wellhead and source water protection.

continue to be updated and public water systems, state and local agencies and the general public will have access to up-to-date information through your Web site."

"Your mandatory Wellhead Protection and watershed control program, the Growth Management Act requirements to plan to protect critical aquifer recharge areas, and other protective efforts by ODW and other state and local agencies will help Washington communities ensure their drinking water sources are protected, now and into the future."

Bogert called special attention to the contributions of David Jennings, source water protection program manager. "David's vision and leadership were keys to the successful design and implementation of your programs. He is recognized as one of the national leaders in wellhead and source water protection."

Where does the water go? *(Continued from Page 1)*

often increase your capacity to supply water just by eliminating leaks. This can result in a cost savings and a water conservation measure for the water system. Physical leaks can be costly, accounting for 10 to 50 percent of lost water.

Leaks by nature are a cross connection that can allow contaminants to enter the system. The result is systems with leaks are more likely to fail bacteria or water quality tests. When that happens too often, the operator's credibility, pride and morale suffer as a result.

WT: Are leaks seasonal?

Godwin: No more seasonal than line breaks in the winter. Leaks occur randomly, but you are more likely to find them in the summer because that's when you typically schedule maintenance.

WT: Where can a system expect to find leaks?

Godwin: Leaks are not always consistent. They are specific to the system and situation. While system A may have main line leaks, system B may have only service line leaks.

WT: Do you have any advice for small water systems?

Godwin: Don't assume anything. When you isolate a section, verify that the valves are truly holding. Be especially careful about narrowing your search. Narrowing your search by assuming where the leak is, can waste time and cause you to miss the leak.

Leak detection is a problem-solving process. It involves surveying the distribution system to identify and pinpoint the exact location of underground leaks. Here are some hints to help small systems prioritize their leak detection efforts.

- **Have the ability to isolate your system into sections or zones.** It is easier to test for leaks when you can use a systematic approach, such as block by block, zone by zone, or narrowing your search as you go. Separating your system into zones will make it easier and less expensive to isolate lines for repairs. When you add new lines, make sure you can you isolate the line or zone from the rest of the system for testing.

- **Know where your lines and valves are.** You need to know where all your lines are and where the closest valve is to have an effective leak detection program.
- **Pay attention to your service meters.** Older service meters can mean lost revenue because the longer they work the less they register. This means the revenue from every house on an older system may go down even though water use remains constant. And the larger the meter, the greater the loss. Some municipalities choose to calibrate commercial 2-inch meters every five years and 3-inch meters or larger every two years. After all, these meters are, in effect, the system's cash register!
- **Check your valves.** You may think you have a leak but the problem is actually a leaky valve. Confirm the valve

is actually holding before continuing your search for the elusive leak. Remember, assume nothing, be systematic in your approach, and learn to be a good problem solver and detective.

WT: Can you share a success story?










Godwin: I recently tested a large system for leaks. After the second visit I was finally able to locate the area with the biggest leak. However, I could not isolate the line because the industrial customer it served would not let me turn the water off for test purposes. This happens sometimes, especially if the customer is a hospital or restaurant. Without the ability to shut off this line, we could not continue.

Later the system was able to connect the zone with the leak to a neighboring water system, giving us the flexibility we needed to continue. After the leaking line was eliminated, the system immediately experienced a 300-gallon per minute decrease in water consumption. With the decrease in demand and corresponding increase in capacity, they were able to turn off one of their wells.

The reality is, you may not be able to test for a leak if the test conditions are unacceptable. You have to weigh the benefits against the cost to the system. However, I have found water systems will do the right thing and take the necessary steps to meet their water conservation goals.

For more information, call (800) 928-5325, e-mail joeg@nwleaks.com or write to Joe Godwin, American Leak Detection, P.O. Box 155, Spokane WA 99210.

Unrepaired Leaks Can Be Costly Water Loss in Gallons at 50 psi

Leak this Size	Loss per Day	Loss per Month	Loss per Year
	120	3,600	43,200
	360	10,800	129,600
	693	20,790	249,480
	1,200	36,000	432,000
	1,920	57,600	691,200
	3,096	92,880	1,114,560
	4,296	128,880	1,546,560
	6,640	199,200	2,390,400
	6,984	209,520	2,514,240

Drinking Water Security Symposiums

Creating a security culture

To promote a security culture for water and wastewater utilities, the Office of Drinking Water (ODW) this year held water security symposiums in Bellevue and Spokane.

The symposiums used research findings and case studies to focus attention on successfully integrated security programs nationwide and, in particular, in EPA's Region 10 (Washington, Alaska, Oregon and Idaho). They gave water and wastewater utilities resources and tools to support creating a culture of security.

ODW used funding from an EPA grant to develop this innovative effort to raise awareness of security efforts nationally and locally. Project team members represented ODW, EPA Region 10, the Water Environment Federation and the engineering firm CH2M Hill.

About 175 people attended the symposiums, where they heard perspectives from the water sector, public health and emergency management agencies, research laboratories and law enforcement. Attendees said the symposiums allowed them to get information in a single forum they ordinarily would not be able to access.

They said the speakers and the participant notebook made them more aware of security-related activities at the local and national level. And, they feel they have resources available to them.

While each symposium provided a lot of information, water sector stakeholders indicated a need for more forums that encourage interactive discussions between water sector security stakeholders, including local health, law enforcement and emergency response agencies.

The symposiums were also an opportunity to introduce the 14 features of an active and effective security program recently developed by the National Drinking Water Advisory Council's Water Security Workgroup.

In many cases, the 14 features (see graphic) are consistent with the steps needed to maintain technical, managerial, and operational performance related to overall water quality. Many utilities may be able to adopt some of the features with minimal, if any, capital investment.

For more information

The Washington State Water Security Symposium Report is online at http://www.doh.wa.gov/ehp/dw/security/water_system_security.htm

ODW has a limited supply of EPA's **Active and Effective Water Security Programs** (817-K-06-001) handbook online at <http://www4.doh.wa.gov/dw/publications/publications.cfm>

For more information about the symposiums, or other water security issues, please call Scott Decker, security coordinator, at (360) 236-3162 or e-mail scott.decker@doh.wa.gov

14 features of a

The goal of implementing the 14 s public health from terrorist attacks.

To create a sustainable effect, the v "business as usual."

Organizational features

1. Make an explicit and visible
2. Promote security awareness
5. Identify managers and em establish security expecta

Operational features

3. Assess vulnerabilities and pe review and update vulnerabi assessments to reflect change threats and vulnerabilities.
4. Identify security priorities and basis, identify the resources o security programs and plann improvements, if any.
7. Employ protocols for detecti contamination consistent wit recognized limitations in cur contaminant detection, moni surveillance technology.
10. Monitor available threat-level and escalate security procedur to relevant threats.
11. Incorporate security consider emergency response and reco test and review plans regular plans to reflect changes in po physical infrastructure, utilit critical interdependencies, ar protocols in partner organiza
14. Develop utility-specific measu activities and achievements, a against these measures to un document program progress.

an active and effective security program

Security features is to improve water security on a national scale by reducing vulnerabilities and, therefore, risk to
s and natural disasters.

whole water sector must not only adopt and actively practice the features, but also incorporate the features into

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Active and Effective Security Program

Infrastructure features

6. Establish physical and procedural controls to restrict access to utility infrastructure only to those conducting authorized official business, and to detect unauthorized physical intrusions.
8. Define security-sensitive information; establish physical, electronic, and procedural controls to restrict access to security-sensitive information; detect unauthorized access; and ensure information and communication systems will function during emergency response and recovery.
9. Incorporate security considerations into decisions about acquisition, repair, major maintenance, and replacement of physical infrastructure; include consideration of opportunities to reduce risk through physical hardening and adoption of inherently lower-risk design and technology options.

External features

12. Develop and implement strategies for regular, ongoing security-related communications with employees, response organizations, rate-setting organizations and customers.
13. Forge reliable and collaborative partnerships with the communities served, managers of critical interdependent infrastructure, response organizations and other local utilities.

Training and Education Calendar: September 2006 - January 2007

<u>Date</u>	<u>Topics</u>	<u>Location</u>	<u>Contact</u>	<u>Phone #</u>	<u>Cost/CEU</u>
Sept 11	Flagger Certification	Ocean Shores	ERWOW	1-800-562-0858	\$40/TBA
Sept 12	BTO/WTPO OIT & Level 1 Cert Exam Review	Auburn	WETRC	1-800-562-0858	\$50/0.7*
Sept 11-12	2006 Fall Conference and Tradeshow	Ocean Shores	ERWOW	1-800-562-0858	\$105/\$125/1.1†
Sept 11-14	BAT Certification Class	Auburn	WETRC	1-800-562-0858	\$545/3.0
Sept 12-14	Water Distribution Certification Exam Review	Spokane	WETRC	1-800-562-0858	\$50/\$275/2.1
Sept 12	BTO/WTPO OIT & Level 1 Cert Exam Review	Auburn	WETRC	1-800-562-0858	\$50/0.7*
Sept 13	Water Distribution Specialist Cert Exam Review	Bremerton	WETRC	1-800-562-0858	\$50/0.7*
Sept 13-15	Water Treatment Plant Operator Exam Review	Olympia	ERWOW	1-800-562-0858	\$50/\$180/\$230/2.1*
Sept 14	BTO/WTPO OIT & Level 1 Cert Exam Review	Richland	WETRC	1-800-562-0858	\$50/0.7*
Sept 15	BAT Certification Class	Auburn	WETRC	1-800-562-0858	\$195/NA
Sept 15	Water Distribution Specialist Cert Exam Review	Wenatchee	WETRC	1-800-562-0858	\$50/0.7*
Sept 18	Basic Field Operations	Auburn	WETRC	1-800-562-0858	\$50/0.7*
Sept 18	Metering: Why you should meter	College Place	ERWOW	1-800-562-0858	\$50/0.7*
Sept 18-19	BAT Refresher Course	Auburn	WETRC	1-800-562-0858	\$220/1.5
Sept 19	Water Works Math	Spanaway	ERWOW	1-800-562-0858	Free/0.5
Sept 19-21	Water Distribution Certification Exam Review	Auburn	WETRC	1-800-562-0858	\$50/\$275/2.1*
Sept 19-21	Water Distribution Manager Exam Review	Olympia	ERWOW	1-800-272-5981	\$50/\$180/\$230/2.2*
Sept 19-21	Cross Connection Control Specialist Exam Review	Moses Lake	ERWOW	1-800-272-5981	\$50/\$180/\$230/2.1*
Sept 20	BAT Professional Growth Exam	Auburn	WETRC	1-800-562-0858	\$110/NA
Sept 20	Water Distribution Specialist Cert Exam Review	Bremerton	WETRC	1-800-562-0858	\$50/0.7*
Sept 20-21	BAT Refresher Course	Spokane	WETRC	1-800-562-0858	\$220/1.5
Sept 21-22	BAT Refresher Course	Auburn	WETRC	1-800-562-0858	\$220/1.5
Sept 21-22	Fire Hydrants: Installation, Testing, Op & Repair	Tacoma	WETRC	1-800-562-0858	\$50/\$245/1.4*
Sept 22	Basic Electrical	Wenatchee	ERWOW	1-800-272-5981	\$50/\$70/\$85/0.8*
Sept 22	BAT Professional Growth Exam	Spokane	WETRC	1-800-562-0858	\$110/NA
Sept 23	BAT Certification Exam	Vancouver	WETRC	1-800-562-0858	\$195/NA
Sept 23	BAT Professional Growth Exam	Auburn	WETRC	1-800-562-0858	\$110/NA
Sept 25	Metering: Why you should meter	Liberty Lake	ERWOW	1-800-272-5981	\$50/0.7*
Sept 25	Small Water System Management	Spokane	WETRC	1-800-562-0858	\$50/0.7*
Sept 25-26	BAT Refresher Course	Auburn	WETRC	1-800-562-0858	\$220/1.5
Sept 26	Water System Controls Monitoring & Alarm Basics	Spokane	WETRC	1-800-562-0858	\$50/0.7*
Sept 26-28	Cross Connection Control Water Use Surveys	Auburn	WETRC	1-800-562-0858	\$50/\$295/2.0*
Sept 26-28	Cross Connection Control Specialist Exam Review	Olympia	ERWOW	1-800-272-5981	\$50/\$180/\$230/2.1*
Sept 26-28	Water Distribution Manager Exam Review	Mt. Vernon	ERWOW	1-800-272-5981	\$50/\$180/\$230/2.2*
Sept 26-28	Water Distribution Manager Exam Review	Spokane	ERWOW	1-800-272-5981	\$50/\$180/\$230/2.2*
Sept 27	Basic Field Operations	Mt. Vernon	WETRC	1-800-562-0858	\$50/0.7*
Sept 27	BAT Professional Growth Exam	Auburn	WETRC	1-800-562-0858	\$110/NA
Sept 27	Operations and Maintenance Workshop	Sequim	AWWA	1-206-296-1441	TBA
Sept 28	Operations and Maintenance Workshop	Bellingham	AWWA	1-206-296-1441	TBA
Sept 28	Pumps	Shelton	ERWOW	1-800-272-5981	TBA
Sept 28-29	Advanced BAT, Troubleshooting & Repair	Auburn	WETRC	1-800-562-0858	\$275/1.4
Oct 2	Small Water System Management	Everett	WETRC	1-800-562-0858	\$50/0.7*
Oct 2-5	BAT Certification Class	Spokane	WETRC	1-800-562-0858	\$525/3.0
Oct 2-11	BAT Refresher Course	Vancouver	WETRC	1-800-562-0858	\$220/1.5
Oct 3	Assuring a Reliable & Efficient Water Supply	Yelm	ERWOW	1-800-272-5981	\$50/0.7*
Oct 3	Water System Controls Monitoring & Alarm Basics	Spokane	WETRC	1-800-562-0858	\$50/0.7*
Oct 3-5	Pump Operation & Maintenance	Shelton	WETRC	1-800-562-0858	\$50/\$275/2.1*

*Operators of Group A small water systems serving 3,300 people or less will be charged a \$50 registration fee for these classes.

† These classes are free for operators of Group A small water systems serving 3,300 people or less.

Training and Education Calendar: September 2006 - January 2007

<u>Date</u>	<u>Topics</u>	<u>Location</u>	<u>Contact</u>	<u>Phone #</u>	<u>Cost/CEU</u>
Oct 4	Cross Connection & Backflow Basics	Shelton	ERWOW	1-800-272-5981	\$50/0.7*
Oct 5-6	Competent Person Cave in Protection	Auburn	WETRC	1-800-562-0858	\$50/\$2101.4*
Oct 5	Emergency Repairs	Liberty Lake	ERWOW	1-800-272-5981	\$50/0.7*
Oct 5-6	Fire Hydrants: Installation, Testing, Op & Repair	Richland	WETRC	1-800-562-0858	\$50/\$245/1.4*
Oct 6	Basic Electrical	Bellingham	ERWOW	1-800-272-5981	\$50/\$70/\$85/0.8*
Oct 6	BAT Certification Class	Spokane	WETRC	1-800-562-0858	\$195/NA
Oct 9	Metering: Why you should meter	Tacoma	ERWOW	1-800-272-5981	\$50/0.7*
Oct 9-11	Basic Electrical	Mt. Vernon	WETRC	1-800-562-0858	\$50/\$275/2.1*
Oct 9-11	Water & Wastewater Disinfection	Tacoma	WETRC	1-800-562-0858	\$50/\$275/2.1*
Oct 9-12	BAT Certification Class	Auburn	WETRC	1-800-562-0858	\$545/3.0
Oct 10	Chlorination Basics	Bellingham	ERWOW	1-800-272-5981	\$50/0.7*
Oct 10	Emergency Repairs	Olympia	ERWOW	1-800-272-5981	\$50/0.7*
Oct 10-12	Cross Connection Control Water Use Surveys	Elma	WETRC	1-800-562-0858	\$50/\$295/2.1*
Oct 10	Utility Mngmnt Seminar Series, #1-Utility Mngmnt	Auburn	WETRC	1-800-562-0858	\$95/0.5
Oct 11	Automatic Control Valves	Everett	ERWOW	1-800-272-5981	Free/0.7
Oct 11	Chlorination Basics	Tacoma	ERWOW	1-800-272-5981	\$50/0.7*
Oct 11-12	Advanced Backflow & Cross Connection	Moses Lake	ERWOW	1-800-272-5981	\$50/1.4*
Oct 11-12	Process Control & Instrumentation	Auburn	WETRC	1-800-562-0858	\$50/\$235/1.4*
Oct 12	Chlorination Basics	Chehalis	ERWOW	1-800-272-5981	\$50/0.7*
Oct 12	Water Audits, Leak Detection and Conservation	Everett	AWWA	1-206-296-1441	TBA
Oct 13	Assuring a Reliable & Efficient Water Supply	Stevenson	ERWOW	1-800-272-5981	\$50/0.7*
Oct 13	BAT Certification Class	Auburn	WETRC	1-800-562-0858	\$195/NA
Oct 13	BAT Certification Exam	Spokane	WETRC	1-800-562-0858	\$195/NA
Oct 14	BAT Professional Growth Exam	Vancouver	WETRC	1-800-562-0858	\$110/NA
Oct 16	Metering: Why you should meter	Pullman	ERWOW	1-800-272-5981	\$50/0.7*
Oct 16-25	BAT Refresher Course	Vancouver	WETRC	1-800-562-0858	\$220/1.5
Oct 17	Asbestos Cement Pipe Work Practice Procedures	Auburn	WETRC	1-800-562-0858	\$155/0.7
Oct 17	Emergency Repairs	Bremerton	ERWOW	1-800-272-5981	\$50/0.7*
Oct 17	Chlorination Basics	Chelan	ERWOW	1-800-272-5981	\$50/0.7*
Oct 18	Chlorination Basics	Moses Lake	ERWOW	1-800-272-5981	\$50/0.7*
Oct 18	Emergency Repairs	Tacoma	ERWOW	1-800-272-5981	\$50/0.7*
Oct 19	Basic Field Operations	Tri Cities	WETRC	1-800-562-0858	\$50/0.7*
Oct 19	Chlorination Basics	Ellensburg	ERWOW	1-800-272-5981	\$50/0.7*
Oct 19	Emergency Repairs	Longview	ERWOW	1-800-272-5981	\$50/0.7*
Oct 20	Asbestos Cement Pipe Work Practice Procedures	Everett	WETRC	1-800-562-0858	\$155/0.7
Oct 20	Chlorination Basics	College Place	ERWOW	1-800-272-5981	\$50/0.7*
Oct 23	Weapons of Mass Destruction Awareness	Everett	WETRC	1-800-562-0858	\$75/0.5
Oct 24	Utility Mngmnt Seminar Series, #2-Regulatory Update	Auburn	WETRC	1-800-562-0858	\$95/0.5
Oct 24	Water Sampling Basics	Mt. Vernon	ERWOW	1-800-272-5981	\$50/0.7*
Oct 24-25	Advanced CCC: Risk Assessment & Hazard Analysis	Spokane	WETRC	1-800-562-0858	\$50/\$175/1.4*
Oct 25	Basic Field Operations	Olympia	WETRC	1-800-562-0858	\$50/0.7*
Oct 25	Water Sampling Basics	Oak Harbor	ERWOW	1-800-272-5981	\$50/0.7*
Oct 26	Backflow Incident Investigation & Response	Spokane	WETRC	1-800-562-0858	\$115/0.7
Oct 26	Tools of the trade for Water Utility Pros 2006	Edmonds	WETRC	1-800-562-0858	\$130/0.7
Oct 26	Water Sampling Basics	Chehalis	ERWOW	1-800-272-5981	\$50/0.7*
Oct 27	Assuring a Reliable & Efficient Water Supply	Longview	ERWOW	1-800-272-5981	\$50/0.7*
Oct 28	BAT Professional Growth Exam	Vancouver	WETRC	1-800-562-0858	\$110/NA

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Training and Education Calendar: September 2006 - January 2007

<u>Date</u>	<u>Topics</u>	<u>Location</u>	<u>Contact</u>	<u>Phone #</u>	<u>Cost/CEU</u>
Oct 31-					
Nov 2	IACC Conference	Wenatchee	Bill Cole	1-360-586-4125	\$135/NA
Nov 1-2	Advanced CCC: Risk Assessment & Hazard Analysis	Everett	WETRC	1-800-562-0858	\$50/\$175/1.4*
Nov 1-2	BAT Refresher Course	Spokane	WETRC	1-800-562-0858	\$220/1.5
Nov 2	Water Sampling Basics	Liberty Lake	ERWOW	1-800-272-5981	\$50/0.7*
Nov 3	BAT Professional Growth Exam	Spokane	WETRC	1-800-562-0858	\$110/NA
Nov 3	Backflow Incident Investigation & Response	Everett	WETRC	1-800-562-0858	\$115/0.7
Nov 3	Water Sampling Basics	Wenatchee	ERWOW	1-800-272-5981	\$50/0.7*
Nov 6	Metering: Why you should meter	Yakima	ERWOW	1-800-272-5981	\$50/0.7*
Nov 6-15	BAT Refresher Course	Vancouver	WETRC	1-800-562-0858	\$220/1.5
Nov 7	Advanced Wellhead/Aquifer Protection	Moses Lake	ERWOW	1-800-272-5981	\$50/1.4*
Nov 7	Emergency Repairs	Port Angeles	ERWOW	1-800-272-5981	\$50/0.7*
Nov 7-9	Pump Operation & Maintenance	Richland	WETRC	1-800-562-0858	\$50/\$275/2.1*
Nov 8	Emergency Repairs	Bellingham	ERWOW	1-800-272-5981	\$50/0.7*
Nov 8	Advanced Wellhead/Aquifer Protection	Wenatchee	ERWOW	1-800-272-5981	\$50/0.7*
Nov 8-9	BAT Refresher Course	Spokane	WETRC	1-800-562-0858	\$220/1.5
Nov 9	Assuring a Reliable & Efficient Water Supply	Ellensburg	ERWOW	1-800-272-5981	\$50/0.7*
Nov 9	Confined Space Entry	Tacoma	WETRC	1-800-562-0858	\$50/\$140/0.7*
Nov 9	Emergency Repairs	Chehalis	ERWOW	1-800-272-5981	\$50/0.7*
Nov 10	BAT Professional Growth Exam	Spokane	WETRC	1-800-562-0858	\$110/NA
Nov 13-16	BAT Certification Class	Auburn	WETRC	1-800-562-0858	\$545/3.0
Nov 14	Assuring a Reliable & Efficient Water Supply	Mt. Vernon	ERWOW	1-800-272-5981	\$50/0.7*
Nov 14	Storage Tank Disinfection	Liberty Lake	ERWOW	1-800-272-5981	\$50/0.5*
Nov 14	Utility Mngmnt Seminar Series, #3-New Technology	Auburn	WETRC	1-800-562-0858	\$95/0.5
Nov 14	Water & Sewer Underground Utility Locating 2006	Richland	WETRC	1-800-562-0858	\$50/0.5*
Nov 15	Assuring a Reliable & Efficient Water Supply	Port Angeles	ERWOW	1-800-272-5981	\$50/0.7*
Nov 15	Storage Tank Disinfection	Yakima	ERWOW	1-800-272-5981	\$50/0.5*
Nov 15-16	BAT Refresher Course	Spokane	WETRC	1-800-562-0858	\$220/1.5
Nov 16	Assuring a Reliable & Efficient Water Supply	Battle Ground	ERWOW	1-800-272-5981	\$50/0.7*
Nov 16	Reverse Osmosis	Anacortes	AWWA	1-206-296-1441	TBA
Nov 17	BAT Certification Exam	Auburn	WETRC	1-800-562-0858	\$195/NA
Nov 17	BAT Professional Growth Exam	Spokane	WETRC	1-800-562-0858	\$110/NA
Nov 18	BAT Professional Growth Exam	Vancouver	WETRC	1-800-562-0858	\$110/NA
Nov 20	Small Water System Management	Richland	WETRC	1-800-562-0858	\$50/0.7*
Nov 20-29	BAT Refresher Course	Vancouver	WETRC	1-800-562-0858	\$220/1.5
Nov 21	Water Sampling Basics	Longview	ERWOW	1-800-272-5981	\$50/0.7*
Nov 21	Water System Controls Monitoring & Alarm Basics	Richland	WETRC	1-800-562-0858	\$50/0.7*
Nov 28	Utility Mngmnt Seminar Series, #4-Utilizing Assets	Auburn	WETRC	1-800-562-0858	\$95/0.5
Nov 28	Water Sampling Basics	Ellensburg	ERWOW	1-800-272-5981	\$50/0.7*
Nov 29	Water Sampling Basics	Pullman	ERWOW	1-800-272-5981	\$50/0.7*
Nov 29-30	BAT Refresher Course	Spokane	WETRC	1-800-562-0858	\$220/1.5
Nov 30-Dec 1	CEU Roundup	Moses Lake	ERWOW	1-800-272-5981	TBA
Dec 1	BAT Professional Growth Exam	Spokane	WETRC	1-800-562-0858	\$110/NA
Dec 2	BAT Professional Growth Exam	Vancouver	WETRC	1-800-562-0858	\$110/NA
Dec 4	Storage Tank Disinfection	Wenatchee	ERWOW	1-800-272-5981	\$50/0.5*
Dec 4-6	Water Works Basics	Mt. Vernon	WETRC	1-800-562-0858	\$50/\$275/2.1*

*Operators of Group A small water systems serving 3,300 people or less will be charged a \$50 registration fee for these classes.

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Training and Education Calendar: September 2006 - January 2007

<u>Date</u>	<u>Topics</u>	<u>Location</u>	<u>Contact</u>	<u>Phone #</u>	<u>Cost/CEU</u>
Dec 5	Assuring a Reliable & Efficient Water Supply	Oak Harbor	ERWOW	1-800-272-5981	\$50/0.7*
Dec 5	Storage Tank Disinfection	North Bend	ERWOW	1-800-272-5981	\$50/0.5*
Dec 5	Utility Mngmnt Seminar Series, #5-Disaster Recovery	Auburn	WETRC	1-800-562-0858	\$95/0.5
Dec 5-7	Basic Wastewater Treatment Plant Operation	Auburn	WETRC	1-800-562-0858	\$275/2.1
Dec 5-7	Pump Operation & Maintenance	Tacoma	WETRC	1-800-562-0858	\$50/\$275/2.1*
Dec 6	Metering: Why you should meter	Grandview	ERWOW	1-800-272-5981	\$50/0.7*
Dec 6	Storage Tank Disinfection	Bellingham	ERWOW	1-800-272-5981	\$50/0.5*
Dec 6-7	Advanced CCC: Risk Assessment & Hazard Analysis	Auburn	WETRC	1-800-562-0858	\$50/175/1.4*
Dec 6-7	BAT Refresher Course	Spokane	WETRC	1-800-562-0858	\$220/1.5
Dec 7	Metering: Why you should meter	Wenatchee	ERWOW	1-800-272-5981	\$50/0.7*
Dec 7	Storage Tank Disinfection	Tacoma	ERWOW	1-800-272-5981	\$50/0.5*
Dec 8	BAT Professional Growth Exam	Spokane	WETRC	1-800-562-0858	\$110/NA
Dec 8	Backflow Incident Investigation & Response	Auburn	WETRC	1-800-562-0858	\$115/0.7
Dec 11-13	Basic Electrical	Auburn	WETRC	1-800-562-0858	\$50/\$275/2.1*
Dec 12	Storage Tank Disinfection	Shelton	ERWOW	1-800-272-5981	\$50/0.5*
Dec 12	Water & Sewer Underground Utility Locating 2006	Auburn	WETRC	1-800-562-0858	\$50/\$110/0.5*
Dec 13	Storage Tank Disinfection	Longview	ERWOW	1-800-272-5981	\$50/0.5*
Dec 13	Weapons of Mass Destruc Awareness for Public Works	Auburn	WETRC	1-800-562-0858	\$75/0.5
Dec 13-14	CEU Roundup	Mt. Vernon	ERWOW	1-800-272-5981	TBA
Dec 13-14	BAT Refresher Course	Spokane	WETRC	1-800-562-0858	\$220/1.5
Dec 13-14	Process Control & Instruction	Everett	WETRC	1-800-562-0858	\$50/\$235/1.4*
Dec 14	Asbestos Cement Pipe Work Practice Procedures	Spokane	WETRC	1-800-562-0858	\$110/NA
Dec 15	BAT Professional Growth Exam	Spokane	WETRC	1-800-562-0858	\$110/NA
Dec 16	BAT Professional Growth Exam	Auburn	WETRC	1-800-562-0858	\$110/NA
Dec 27	BAT Professional Growth Exam	Auburn	WETRC	1-800-562-0858	\$110/NA
Dec 27-28	BAT Refresher Course	Spokane	WETRC	1-800-562-0858	\$220/1.5
Dec 29	BAT Professional Growth Exam	Auburn	WETRC	1-800-562-0858	\$110/NA
Jan 2-4, 07	Water Distribution Certification Exam Review	Auburn	WETRC	1-800-562-0858	\$50/\$275/2.1*
Jan 15-19	BAT Certification Class	Spokane	WETRC	1-800-562-0858	\$645/3.0
Jan 16-18	Cross Connection Control Basics and Exam Review	Auburn	WETRC	1-800-562-0858	\$50/\$275/2.1*
Jan 16-18	Water Distribution Certification Exam Review	Everett	WETRC	1-800-562-0858	\$50/\$275/2.1*
Jan 20	BAT Certification Exam	Spokane	WETRC	1-800-562-0858	\$195/NA
Jan 23-25	Water Distribution Certification Exam Review	Spokane	WETRC	1-800-562-0858	\$50/\$275/2.1*

*Operators of Group A small water systems serving 3,300 people or less will be charged a \$50 registration fee for these classes.

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For information about distance learning activities, call WETRC at (800) 562-0858

Additional Training Links:

AWWA King County Subsection Web site—<http://www.kcawwa.org/>

ERWOW Web site—<http://www.erwow.org/>

WETRC Web site—<http://www.wetrc.org/>

AWWA Pacific Northwest Section Web site—<http://www.pnws-awwa.org/>

EPA electronic workshops Web site—<http://www.epa.gov/safewater/dwa/electronic.html>

Our training calendar is updated quarterly; please visit the additional training links for current information.

For the complete Training Calendar visit the Drinking Water Homepage and click on Training - <http://www.doh.wa.gov/ehp/dw>

NOTE: Links to external resources are provided as a public service, and do not imply endorsement by the Washington State Department of Health.

- New & Revised Publications -

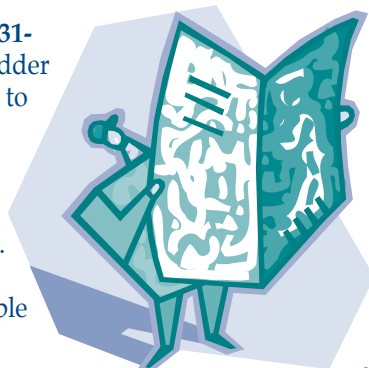
Troubleshooting Bladder Pressure Tanks (331-342). New! 2-page tech tip explains what bladder pressure tanks are, how they work, and how to solve problems.

Chlorine Contact Time for Small Water Systems (331-343). New! 2-page tech tip explains the concept of chlorine contact time. It includes estimated baffling efficiencies for various storage and pressure tanks and sample calculations.

Funding for Drinking Water Capital Improvement Projects (331-344). New! 6 pages of information on primary funding sources for drinking water infrastructure projects.

EPA considers changing small water system affordability variances (331-347). New! 2 pages of questions and answers on proposed changes to the small water affordability variance.

Drinking Water State Revolving Fund Biennial Report (331-334). New! 31 pages include progress on long- and short-term program goals, details on loan and set-aside activities, an overview of the program's financial conditions, and a report on the state's compliance with provisions of the federal capitalization grants.



Multiple Wells, One Aquifer: How to show many wells draw from the same aquifer (331-235). Revised. 2-page fact sheet explaining what public water systems should include in the technical report they submit to ODW when applying for fewer required samples.

Arsenic in Drinking Water (331-167). Revised. 2-pages of questions and answers on arsenic in drinking water sources, health effects, standards, geographic distribution, and what can be done about it.

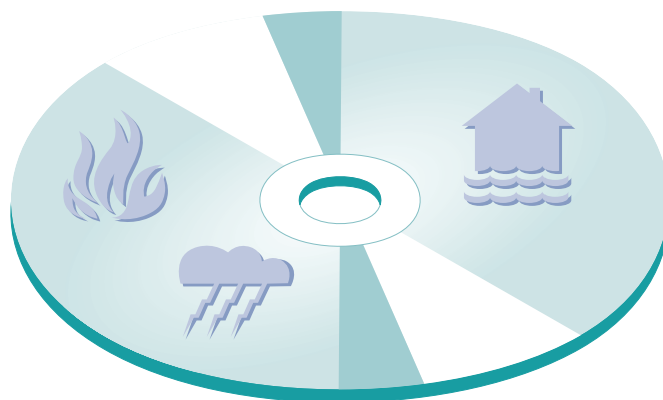
Follow-up to an Unsatisfactory Coliform Sample (331-187). Revised. 2-page fact sheet describing action for water systems to take when coliform bacteria are detected in a drinking water sample.

For copies of Office of Drinking Water publications, call (800) 521-0323 or visit the Web site at <http://www4.doh.wa.gov/dw/publications/publications.cfm>

Use our Listserv to get e-mail copies of new and revised publications. Sign up at <http://listserv.wa.gov/cgi-bin/wa?SUBED1=wa-drinkingwaterpub&A=1>

FEMA Offers Disaster Preparation DVD

The Federal Emergency Management Agency (FEMA) has designed a new DVD for schools and families with children. The DVD, entitled **Getting ready for disaster**, lays out a step-by-step process to prepare for disasters. There are seven chapters: get informed, make a plan, disaster supplies kit, people with disabilities, food and water, helping children cope, and get involved.



You may help your employees and your customers prepare by featuring the DVD in your newsletter and other outreach materials.

FEMA hopes distribution of the DVD will help families be better prepared as this year's hurricane, tornado, flood and wildfire seasons approach. FEMA expects to have a Spanish version of the DVD available in the next few months.

The DVD is enhanced when coupled with FEMA's companion guide entitled **Are you ready? An in depth guide to citizen preparedness**. FEMA also offers a facilitator guide for those who want to deliver information to small groups or classrooms.

You can download the guide or view the DVD online at <http://www.fema.gov/areyouready/>

You can also order the DVD, the facilitator guide and the companion guide from the FEMA publications warehouse at (800) 480-2520.

2007 Drinking Water Week Awards Nomination Form

In celebration of Drinking Water Week, May 6-12, 2007, the Department of Health's Office of Drinking Water will recognize three water systems and one operator for their commitment to providing safe and reliable drinking water.

Please submit nominations in writing. Complete this form and attach it to a one-page summary. The summary needs to include convincing information about why the system or operator you are nominating should be selected for recognition. You may also include additional information such as newspaper clippings and other supporting documents.

If you are submitting more than one nomination, you can either photocopy this form or download it from the Web site at http://www.doh.wa.gov/ehp/dw/drinking_water_nomin.htm

Category (please check one):

- ☐ Most Improved – This award has typically been presented to water systems that have overcome a bad situation and are now providing excellent service to their customers.
- ☐ Grace Under Pressure – Recognition for handling a crisis well.
- ☐ Going Above and Beyond – Recognition for providing assistance to neighboring water systems, the community, DOH, and so on.
- ☐ Operator of the Year/Lifetime Achievement – This award honors an individual water system operator for dedication and commitment.

Information about Nominee

Name of System/Individual: _____

City/County: _____

Type of System: ☐ Community ☐ TNC ☐ NTNC ☐ _____

Number of Service Connections: _____

Form Completed by: _____

Name: _____

Title: _____

Representing: _____

City: _____ Phone: _____

Email: _____

Nominations must be received by January 12, 2007

Please send nominations to:

Donna Lynch, Office of Drinking Water

PO Box 47822, Olympia, WA 98504-7822

FAX: (360) 236-2252

Email: donna.lynch@doh.wa.gov

Nominations being accepted for 2007 Drinking Water Week awards

In celebration of Drinking Water Week, May 6-12, 2007, the Department of Health's Office of Drinking Water will recognize three water systems

and one operator for their commitment to providing safe and reliable drinking water.



If you know of a water system or water works operator deserving recognition, please submit nominations in writing. Complete the form on page 15 of this newsletter and attach it to a one-page summary. The summary needs to include convincing information about

why the system or operator you are nominating should be selected for recognition. You may also include additional information such as newspaper clippings and other documents supporting your nomination.

Nominations are due in our office by close of business January 12, 2007. Nominations will be reviewed by an ODW committee, and final selections will be made by our director's management team. Award winners will be recognized during Drinking Water Week. If you have questions, please call Donna Lynch at (360) 236-3167 or e-mail donna.lynch@doh.wa.gov

In This Issue

The following people contributed to the production of this issue of *Water Tap*: Peggy Barton, Sara Brallier, Scott Decker, Chris Gagnon, Larry Granish, David Jennings, Jennifer Kropack, Donna Lynch, Paula Smith, Amy Swecker, Leslie Thorpe Gates, Bill Thurston, Linda Waring (editor).

The Department of Health Office of Drinking Water publishes *Water Tap* quarterly to provide information to water system owners, water works operators and others interested in drinking water.

Mary Selecky, Secretary of Health

Gregg Grunenfelder, Assistant Secretary of Health, Environmental Health Division

Denise A. Clifford, Director
Office of Drinking Water

Comments, questions, story ideas, articles and photographs submitted for publication are welcome. Please address correspondence to Linda Waring, *Water Tap*, Office of Drinking Water, P.O. Box 47822, Olympia, WA 98504-7822, or e-mail linda.waring@doh.wa.gov. Past issues are available by contacting the editor or visiting the Web site at http://www.doh.wa.gov/ehp/dw/our_main_pages/watertap.htm

DOH PUB. #331-200
printed on recycled paper



PRSRT STD
U.S. POSTAGE PAID
Washington State
Department of Printing

Department of Health
Office of Drinking Water
PO Box 47822
Olympia, WA 98504-7822
(800) 521-0323